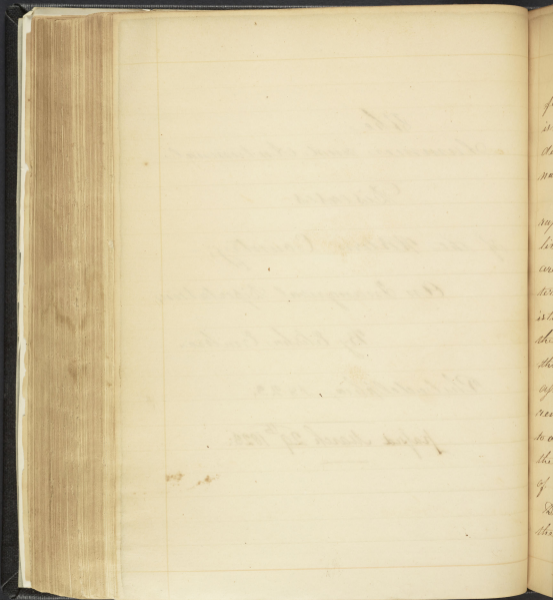


The
Summer and Autumnal
Diseases
of the Western Country; -
An Inaugural Dissertation,
By Elisha Embree.
Philadelphia, 1823.

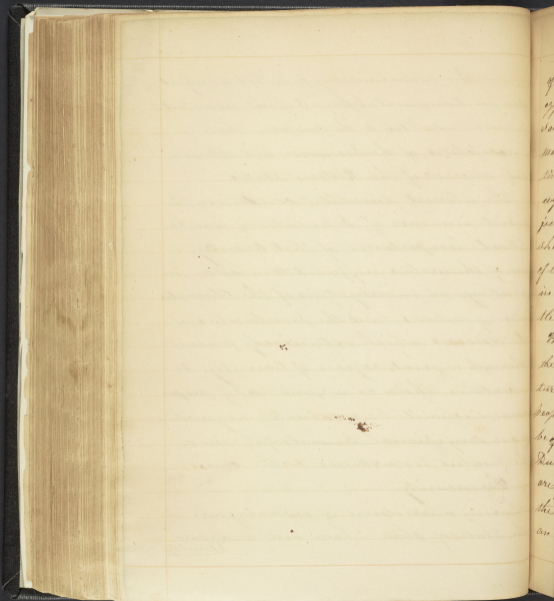
passed March 29th 1828.



In endeavouring to select a subject for an Inaugural Essay, I find none that is more adapted to the purpose, than a description of the Summer and Autumnal diseases of the Western States.

The almost insulated condition, the rapid increase of Population, and political importance of that Country, are of themselves sufficient to accord, interesting, an investigation of the Character, local features, and the peculiarities of the diseases which extensively prevail through a great region of Country, to ascertain their causes, and apply proper remedies will be a valuable acquisition to our professional knowledge, and of the greatest importance to the cause of Humanity.

During a residence of several years in the State of Ohio, I have had an opportunity



of making many observations on the Pathology of the prevailing Diseases, and have had some practical experience in the treatment and cure of them; although much more time and a greater opportunity, would be necessary, to give a complete view of the subject. My object in this paper is merely to sketch the nature, treatment and causes of the diseases which annually prevail in a district of Country hitherto but little noticed by Medical Authors.

Before entering into a further detail of the subject, a few remarks on the nature of the Climate, the habits of the people, and their manner of living, may be of service.

During the Winter months, the Winds, are from the South West, passing from the rocky Mountains, they sweep over an extensive portion of high flat, or

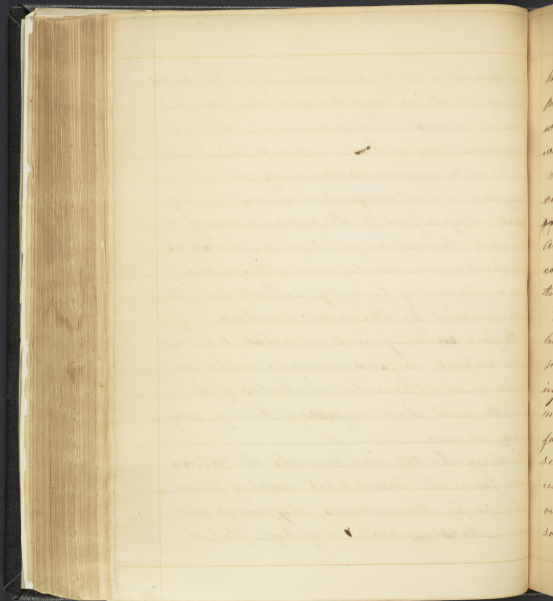


table land, sometimes carrying to the North
producing a cold and clear atmosphere,
which gives a peculiar degree of health act-
ivity and vigour to ^{the} inhabitants.

In the month of March the wind is very
variable, with frequent rain and slight
snow storms, and the temperature of the
atmosphere unequal. The diseases
consequently are of an inflammatory na-
ture.

In April and May the wind is more regu-
lar, and mostly from the South West; the tem-
perature moderate and gradually increas-
ing; During these months the diseases assume
more of Bilious tendency, producing a
form of fever different from any that I have
seen described in the Books. It commen-
ces its attack, with an heavy chill with-
out any premonitory symptoms, and is
soon followed by nausea and vomiting

4 22

3

great pain in the Head, flushed countenance with much anxiety. The pulse full strong and not frequent, the skin dry, and the tongue covered with a yellowish brown coat, and the thirst not very great. The bowels either very costive or very free, a slight delirium generally prevails, and the patient is sometimes carried off with all the symptoms of apoplexy; but this is seldom the case when active remedies have been used. It is different from Syncope in its mode of attack, and termination, for we very seldom find it terminating in the Syncope. — There is much greater biliary derangement than in the Syncope, and the system is not so generally affected. It has no regular remissions, and gradually leaves the patient in six or eight days. It is generally cured by the free use of the laxest and active purgatives.

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In the months of June and July, the rains vary from South West to south East, The latter followed by continued rains and sudden ^{showers.} producing great floods in the small rivers and creeks. The rise of the larger rivers depend upon the melting of the snow collected on the mountains, which generally is in March or April, over flowing their banks extensively, and thus becoming a fruitful source of disease. The temperature of the atmosphere much increased and the evenings frequently warm, the vegetation luxuriant and rapid in its growth. The inflammatory nature of the diseases opening, and the disorders of the bowels increasing. ~~Cases~~ Cholera Infantum becomes epidemic in nearly all parts of the country, In the latter part of July Cholera Morbus and Dysentery make their appearance.

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In August and September the vegetation having reached its acme, now fades rapidly, as is scorched by the intense heat of the Sun, the temperature of the atmosphere is at its height in July and August, although the evenings of the latter are frequently cool and refreshing. The dews are very heavy and the fogs frequent in low grounds, and in the vicinity of rivers. Rain seldom appears excepting in sudden showers attended with much thunder and lightning. The Springs either become dry or evaporated before they pass far from their sources, the creeks and small streams partake of the nature of ponds, and the luxuriant crop of vegetables is now undergoing a state of rapid decomposition, filling the atmosphere with a variety of exhalations. During this time the winds prevail from the Southwest

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and South, coming from the Gulf of Mex-
ico, passing up the great valley of the Missis-
sippi, sweeping over a large portion of
alluvial land, and extensive prairies,
loaded with the effluvia of decaying
vegetables, impregnating the atmosphere
with their noxious principles. then pas-
sing over an extensive flat, and uncul-
tivated forest, and ~~finally~~ arriving at
the fertile improvements of the inhabi-
tants of the Western States.

In the early part of August Intermittent
fever and Dysentery generally prevail;
The fever gradually changing to the in-
termittent and continued forms; and in
September frequently assumes the Ty-
phoid type, which in some places ex-
hibits a degree of Malignancy equal
to that which has appeared in any of
our Atlantic Cities.

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The temperature in October is more mild
 a gentle breeze from the West, frequently
 renders the afternoons pleasant and the
 evenings cool, but ^{then} are alternate, with
 warm nights, and sudden showers of rain.
 About the middle of this month the
 temperature is reduced to the freezing
 point which puts an effectual stop to the ~~the~~
 Autumnal diseases, or changes them
 into an inflammatory character.

The month of November is characterized
 by that peculiar kind of weather called
 Indian summer. The atmosphere is
 thick, hazy, or smoky, that the sun
 is generally obscured, while the temper-
 ature is mild and agreeable. The Autumnal
 diseases entirely disappear, the
 swarthy and sallow countenance, is exchan-
 ged for the full and rounded features,
 and finally December hastens on the

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necessary funds to carry out its
policy.

weary Physicians, and the convalescent Patient, Health, Vigour and Happiness.

This extensive country is inhabited by people from all parts of the United States, and many parts of Europe. Their diseases, in all probability, are in some measure influenced by the change of Climate to which they are subjected on their arrival. They are generally of a large and robust appearance, their constitutions strong and vigorous, their exercises of an active nature and consequently their Muscular system strongly marked. In country places and small villages they are much exposed, by sleeping in open Houses and on ground floors. In the larger Towns they have all the necessary comforts of life, without many of the luxuries of large Cities. There is consequently less variety of disease but of a more active nature.

The manner of living among the agriculturists is generally simple, plain and good. In the large Towns, they have every thing that a fertile country, luxuriant in vegetation, and undergoing a state of rapid improvement, can produce.

With extreme regret, I am obliged to acknowledge, that spirituous liquors are the common articles of Drink; they are among the staple commodities, and are used in great abundance. Their effects on the Human System are too well known to require an illustration. They undoubtedly act as a predisposing cause, to a large number of the cases of Bilious fever in the Western States.

In the Months of March, April, and May, the Diseases require but little variety of treatment different from that used in Inflammatory complaints in

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other parts of the Country, expecting that the depleting remedies are carried to a greater extent. The Brain ^{and the lungs} are the organs most generally affected at this season of the year. In May the biliary organs are much deranged in their functions, and the power of the stomach much impaired. Purgative medicines are used largely, and those in which calomel is an ingredient are the most valuable. As soon as the inflammatory stage of the disease ~~is~~ is removed the Tonic Medicines especially the Peruvian Bark is resorted to with good effect.

Cholera Infantum seems to have few peculiarities, perhaps the only variations from the ordinary character is the greater degree of malignancy. The treatment used is very various, and in many instances unsuccessful. Some Physicians of ^{extensive} ~~the~~ ^{experience}

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practice, depend entirely upon ~~the~~
 astringents, Others connect them with the
 warm bath, which determines the fluids
 to the surface of the body, and the vessels
 are thereby relaxed. Many purge freely un-
 der the impression that there is some mor-
 bid matter in the intestines which must
 be removed, while others use mild laxa-
 tives, and Diaphoretics, such as, Antiseptic
 Opium and Ipecacuanha, three grains of the
 former, and one grain of each of the latter
 powdered and mixed, divided into six powders
 one given every two hours. Perhaps if this
 method was alternated with the first, and
 assisted by the warm bath something
 might be gained. Cholera Morbus has
 nearly the same symptoms; runs through
 a similar course, and requires a simi-
 larity of treatment with that in other
 parts of the United States.

Dysentery is characterized by a discharge of
 white, flaky mucus mixed with blood, great
 costiveness, and inflammatory action, much
 determination to the lungs, liver and spleen
 the functions of the liver much deranged,
 pouring out bile, in large quantities and
 of a vitiated quality, The general opin-
 ion is, that the great constipation is
 owing to the acridness of the bile, rather
 than a collection of hardened faeces, these
 being seldom found in the discharges.
 Blood letting in the early stages frequen-
 tly produces happy effects, in fact it can
 seldom be dispensed with. The second
 indication is, to overcome the consti-
 pation of the bowels, which is often at-
 tended with much difficulty, large
 doses of calomel sometimes combined
 with opium is the only medicine that
 in which much dependence can be
 placed

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The first of these is the
fact that the number of
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The third indication is, to produce a de-
 termination to the surface of the Body; the
 most effectual medicine for this purpose
 is a combination of Calomel Opium and
 Ipecacuanha, in small and frequently re-
 peated doses. After the first evacuation
 of the bowels there is but little dif-
 ficulty in keeping up the action by
 mild ~~laxatives~~ purgatives, castor oil being
 one well adapted to the purpose; Blis-
 ters to the Abdomen frequently prove
 highly serviceable.

The bilious intermittent fevers are the
 most common and the most important
 of all the diseases of the West; they as-
 sume all the various states, from the
 most mild intermittent to the most
 malignant Typhoid, and they all seem
 to derive their influence from a
 vitiated state of the Atmosphere.

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little need be said of the Intermittent fever, as it bears nearly the same character in all parts of the United States. It annually visits nearly the whole of the Country West of the Alleghany Mountains. There is in this disease a great tendency to visceral obstruction, Purgative medicines are used largely and the Peruvian Bark administered freely. The Intermittent frequently passes into a remittent, continued, and typhoid type, and there again into the Intermittent.

The symptoms of the Malarious Remittent fever frequently varies according to the humidity or the dryness of the Atmosphere — assuming an inflammatory nature after frequent rains, but during dry seasons they ^{it has} have a strong tendency to fall into the typhoid state. It is usually attended with a full, slow and strong

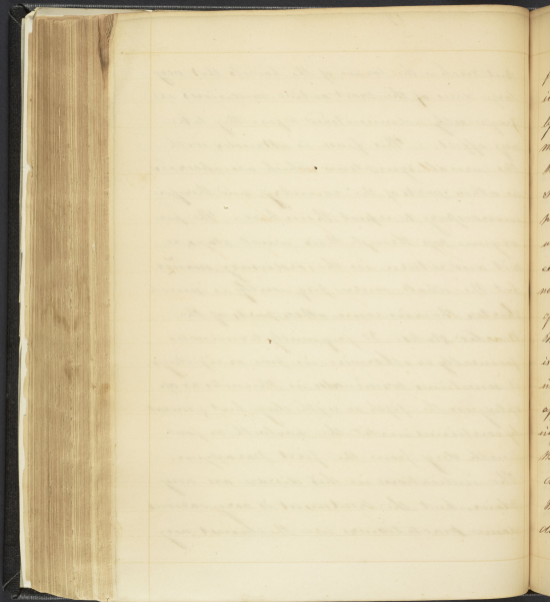


pulse, great thirst and flushed countenance; and great determinations to some internal ~~organ~~ organ, The Brain, the Liver the Spleen and the stomach ~~are~~ the organs most affected. It seems to be the nature of the disease that some one organ only shall be affected at a time; The Brain is most generally affected in the early part of the Summer; the Liver and spleen in the autumn; and the lungs in the Winter and Spring. Sometimes a tendency to congestion continues ^{in one organ} throughout the warm season.

There is generally great costiveness, and a general torpor throughout the alimentary canal. The Stomach is generally very irritable, until the acrid contents shall be evacuated by an emetic; when a large quantity of bile and viscid mucus is discharged after which it will generally receive the other medicines without offence.

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But such is the torpor of the bowels, that very large doses of the most active medicines are frequently administered before they take any effect. This fever is attended with the usual symptoms which are observed in other parts of the country, and therefore unnecessary to repeat them here. The paroxysms pass through their usual stages, admit and return in the ordinary manner, but the whole course frequently is much shorter than in some other parts of the United States. It frequently terminates favourably or otherwise in five or six days, it sometimes terminates in Phrenitis or apoplexy on the fifth or sixth day, but generally continues until the fourth or fourth day from the first paroxysm. The indications in this disease are very plain, but the treatment is very various. Some practitioners use the lancet very



fully in the first stages, following it by Emetics and Cathartics, while others depend entirely on these medicines until a distinct remission is obtained, when the Peruvian Bark is administered with success;

Some use Tartrate of Antimony so as to produce full vomiting, while others use it only in small and frequently repeated doses with good effect. And there are not a few who always associate the name of Bilious fever, with a profuse salivation. Mercury in this disease used as a cathartic is an invaluable medicine, and in some instances the system requires to be slightly affected, but a profuse discharge of saliva in general is injurious, and never expedites the cure.

A combination of these various principles I have seen, happily adopted. The first indication is, to open arterial action.

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and relieve internal congestions, nothing will
do this more effectually than bloodletting.
The second indication is, to evacuate the
bowels. There is generally such an accumu-
lation of bile as to render the stomach so
irritable, that scarcely any medicine will
be retained on it a sufficient length of time
to make an impression on the system.
Emetics are therefore strongly indicated.
They often do much more than merely
evacuate the stomach, they make a
powerful impression on the system
which prepares it for the reception of
other medicines. The most active cath-
artics are now resorted to, a combi-
nation of Colomel of Jalap and Gam-
boge mostly has an admirable effect.
but it sometimes requires them to be
repeated daily, until the alimentary
canal is entirely evacuated.

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after which the fever abates and a distinct remission is observable, the Bark may be then administered with safety.

The warm bath is sometimes used to promote perspiration, and to relieve organic oppression. Calomel and opium in small and frequently repeated doses, with mercurial frictions, continued until the gums are slightly affected, frequently produce a most happy effect; the constipation is overcome, the febrile heat and thirst abating, the skin becoming soft and moist, and sometimes a distinct remission is the consequence. Calomel in some form is of unbounded utility in almost all the diseases of the West. As a purgative it is used largely with the most happy consequences, combined with diaphoretics it is of the highest value, as a sialagogue it is used far too freely, it harms the patient

and seldom is necessary to the cure of Malignant remittent fever. Tartaric of Antimony is used largely, and requires double the quantity usually recommended in the Books to produce full vomiting. During the paroxysm the Antimonial preparations have a powerful effect in alluening the distress and anxiety. After the paroxysms have been once procured from their torpidity, the action is easily kept up by the milder purgatives, until a distinct remission is obtained, when the Bark and other Tonics are administered with propriety. A few days of this kind of treatment will generally bring the patient into a regular inter-mittent or a confirmed state of convalescence. — The prostrate or Typhoid state of this fever seems to require a mode of treatment different from any

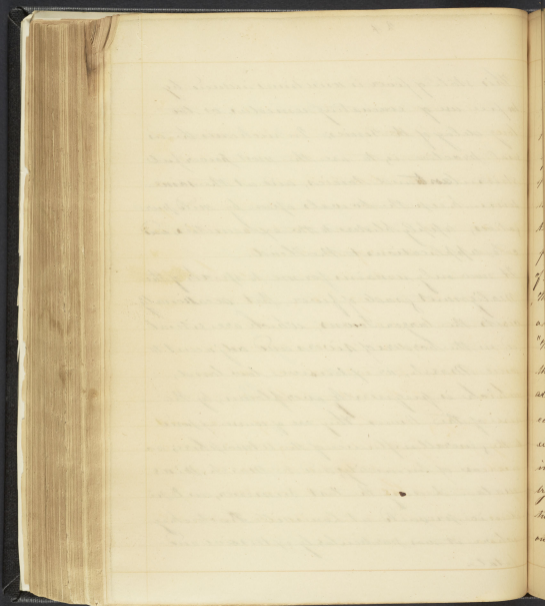
that I have met with in the Books, but I do not know that it is peculiar to the Western country. This fever is frequently attended with a depressed state of the system, the pulse small, hard and irregular or intermittent, as if labouring to relieve itself of a load. The extremities shrivel and cold. The thirst great and the skins dry and hot, and many symptoms of internal congestions. The excrement generally confined to the bladder, lungs or liver. The stomach and intestines much disordered. The patient is either wild frantic or comatose, a confirmed stupor comes on and death ends the scene. Where there is great determination to the lungs, bloodletting is imperiously demanded, blisters over the chest, and on the extremities are generally applied, and the bowels are evacuated by a glyster. When the Brain has been affected

Opening the Jugular vein, and the applica-
 tion of Cold water to the head has been
 found highly beneficial. Blisters applied
 to the epheumeticæ the body sponged with cold
 water and the bowels evacuated by an active
 purge. These will generally relieve the most
 urgent symptoms when the bark and the
 other tonics are administered freely.

If the liver be the organ affected, a Blister
 over the part and on the extremities is
 applied. and Calomel in large and repea-
 red doses is found generally to relieve the
 oppression. While the evacuating reme-
 dies are in use the diffusible stimulents
 are given to keep up an agreeable exite-
 ment and allay irritation. The stim-
 ulating tonics, such as Wine, Brandy or
 any of the preparations of Alcohol, and
 Diaphoretics are use as soon as the state
 of the system will admit.

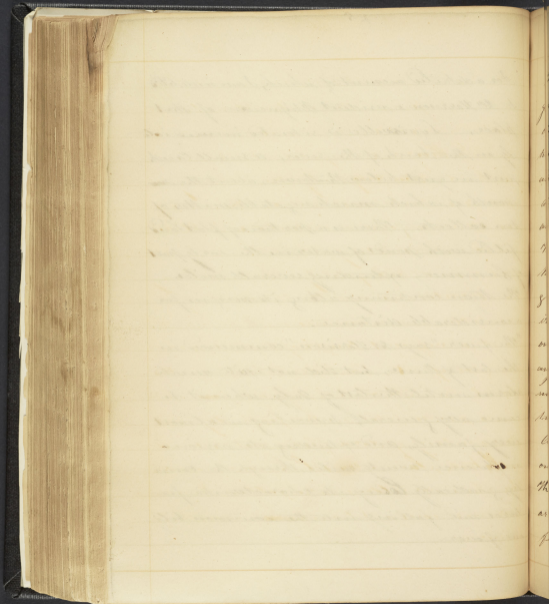
This state of fever is sometimes induced by
 an free use of evacuating remedies, or too
 long delay of the Tonics; In such cases the us-
 ual practice is, to use the most powerful
 Stimulant and Tonics, and at the same
 time keep the bowels open, by mild pur-
 gatives, apply blisters to the extremities, and
 cold applications to the Head.

It now only remains for me to speak of the
 Malignant grade of fever, that occasionally
 visits the larger Towns, which are situat-
 ed on the borders of rivers and adjacent to
 some Marsh, or extensive low land,
 which is frequently overflowed by the
 rise of the Rivers. They are of course exposed
 to the generall influence of the Atmosphere, an
 increase of humidity, and to Marsh Mias-
 mata. During the last Summer, an Epi-
 demic prevailed at Louisville Kentucky
 where it was particularly extensive and
 fatal.



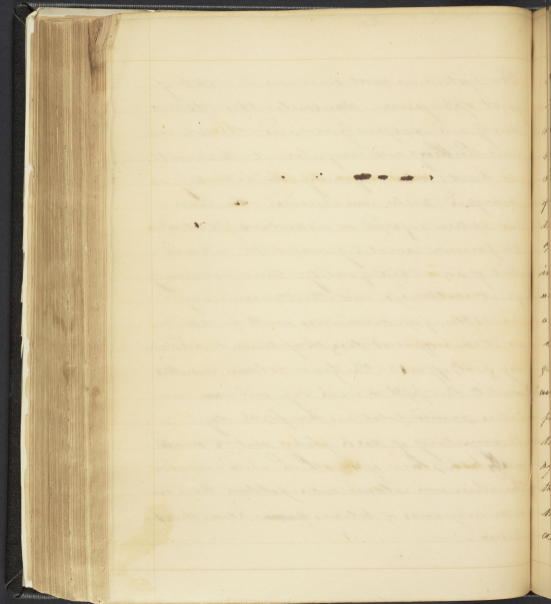
For a detailed account of which, I am indebted to Dr Harrison a resident Physician of that place. Squirrville is situated immediately on the bank of the river, a small Creek just in front below the town, about the ~~mouth~~ mouth of which much vegetable matter of this collects. There is a portion of flat land filled with ponds of water in the early part of Summer, extending several miles. The town continuing along its margin for a considerable distance.

"The fever" says Dr Harrison "commenced in the last of June, but did not excite much alarm until the last of July, when it became very generally prevailing in almost every family, and extending its noxious influence twenty miles through the country, gradually losing its characteristic features and falling into the common bilious fever.



The system in most cases, was in a state of great oppression, Muscular strength and energy and especially reduced, the pulse sometimes throbbing and irregular, at other small and hard; and frequently the vibrating or depressed pulse was observed, the liver and spleen engorged or distended with blood the former secreting very little bile and that of an altered quality. There was usually great costiveness, and the stomach very irritable, few medicines could be retained on it a sufficient length of time to produce any good effect. The fever seldom remitted until the fifth or sixth day, and ~~some~~ some times proved fatal on the fifth day. —

A vomiting of dark flaky matter occasionally took place after which none recovered the skin was seldom more yellow than in ordinary cases of bilious ~~fever~~ remittent fever.



It did not appear in any case to be contagious, but to depend on a peculiar state of the atmosphere, which became less sensible in proportion to the distance from the Town. From the ~~autopsy~~ **dissection** it was found, that the Liver and Spleen were much distended with blood, and very easily lacerated. The internal coat of the Stomach in some instances ^{was} entirely destroyed, and the intestinal canal much inflamed; in such cases a vomiting of dark, fleshy matter had preceded Death. The lungs and the Pleura generally natural. The latter sometimes in an inflamed state, and the former much filled with mucus. From the result of these examinations ~~we~~ as well as the symptoms, we must conclude that the Stomach was the principal seat of the disease. The treatment of this disease was at first very various, but

after a time a regular practice was established and generally proved successful.

In the first stage of the fever, but not after the ~~third~~ day, blood letting was found to produce an admirable effect. Emetics were generally injurious and sometimes fatal. Calomel seemed the only medicine that would lie on the stomach, or produce any good effect, indeed it was the sovereign remedy. It was given largely when ~~the~~ stomach would bear it, but the irritability of that organ was frequently so great, that small doses combined with opium only could be used. There were repeated every hour until a slight affection of the gums was perceptible; At this time the bowels would generally give way, the irritability of the stomach be reduced, and all the symptoms alleviated. After the effects of the Mercury had pervaded the system, there was but little diff

difficulty in keeping the bowels open by mild purgatives. Blisters were used on the extremities and Epigastrium with some benefit.

The most distinguished attribute of this fever was, that it would not bear the Barks in any shape, the most mild tonics only were admissible after a distinct remission.

The patients generally recovered in about four or five weeks, but when removed from ~~within~~ the influence of the affected atmosphere, they recovered much sooner. Rather more than two hundred fell victims to the Epidemic, in a population of about five thousand."

I have received accounts of this disease, as it prevailed in several other towns, all of which appear to be very similar to the above description, and therefore it will not be necessary to say much about them. The treatment in different places being so various

that it seems difficult to ascertain the efficacy of any particular mode of cure.

I think it will appear evident, from the above descriptions of the different diseases, that they depend on one common cause, this cause, varying only in degree, and modified by some peculiar circumstances. Thus, we see them attacking the same parts of the body, running a similar course, requiring a similarity of treatment, and varying in exact proportion to the intensity of the disease. ~~Some of the diseases are more violent than others.~~ One cause only is observable, and the diseases increase in exact proportion as that cause is developed.

The South West winds evidently contain much miasmatic influence, extending it over the whole country, producing bilious derangement, debilitating the digestive organs, and destroying the bal-

and of the system. The intense heat of the
 Sun relaxing muscular fibres, and the cool
 and damp nights ~~with~~ ^{with} perspirations.
 Thus, the system is prepared to sink under
 any augmentation of the cause, arising
 from low and damp situation as in the
 neighbourhood of Marshes; where unfortu-
 nately many of the principal towns
 are situated.

When the thick Forest shall be removed
 the product of agriculture properly
 increased. The Marshes drained; and the
 Inhabitants observing a ^{more} ~~greater~~ ^{improved} ~~temper~~
 ance. We may expect to find the cause
 of the fever removed. And when the science
 of Medicine becomes properly ap-
 plied to practical purposes, we then may
 expect to find the diseases of the West-
 ern Country divested of half of their
 Terrors.

